

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D130-701 REV. E AND INSTRUCTIONS FOR
CONTINUED AIRWORTHINESS ICA-D130-701 REV. 3 OR LATER APPROVED REVISION

REF. TCCA STC: SH94-14
REF. FAA STC: SR00213NY
REF. EASA STC: 10016996
REF. ANAC STC: 2007S03-03

1.0 PURPOSE

The purpose of this Dart Service Instruction (DSI) is to provide instructions to add the D5393-041 strut assembly on the D130-701-043 Basket Installation at CHG 006 or earlier to reduce longitudinal oscillations. One DSI 9740-011 Strut kit must be applied to each Basket. The DSI 9740-011 Strut kit will be incorporated into D130-701-043 at CHG 007 and subsequent.

2.0 PROCEDURE

1. Enlarge the center hole on the D4039-041 Bracket to $\varnothing 0.257$ " per Figure 1. Touch up hole with Alodine 1200/1201 per MIL-C-5541 and prime per Aircraft Maintenance Manual.
2. Loosely install the D5395-1 Bracket and associated hardware on the fwd side of the D4039-041 Bracket as shown in Figure 1. Loosely install the D5394-041 Bracket on the Basket frame per Figure 2.
3. Install the D5393-041 Strut Assembly onto the D5395-1 Bracket and D5394-041 Bracket with 2x MS17984-C405 pip pins. Adjust the AN665-34R clevises as required.
4. Remove one of the MS17984-C405 pip pins and turn the AN665-34C clevis one half turn shorter so the rod is in tension. Reinstall the strut assembly and tighten the NAS509-2C Jam Nut. Torque the AN4-6A bolt and AN3-11A bolt per Table 1.
5. Secure the NAS509-4C jam nuts using lock wire per AC 43.13 or MS33540. After adjustment, use lockwire in the hole of the AN665-34R clevises to check for proper engagement of threads. It is acceptable to flip MS17984-C405 Quick Release Pin orientation to facilitate D5393-041 Strut Assembly installation.
6. Update aircraft logbook to indicate installation of the DSI 9740-011 Strut kit and adjust aircraft weight and balance record with weight and balance data provided in Section 4.0 of this document.

TABLE 1 - TORQUE VALUES


| FASTENER TYPE | TORQUE (IN-LB) |
|---------------|----------------|
| #10 | 20-25 |
| 1/4" | 50-70 |

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 16.01.26
CERT. NO.: SH94-14
ISSUE NO.: 7

| | | | |
|------------|---|---|--------------|
| A | NEW ISSUE | VS | 16.01.26 |
| REV. | DESCRIPTION | BY | DATE |
| DESIGN | RF | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | |
| DRAWN | VS | | |
| CHECKED | RF | DRAWING NO. | REV. A |
| MFG. APPR. | N/A | DSI 9740 | SHEET 1 OF 4 |
| APPROVED | HS | TITLE | SCALE |
| DE APPR. |  | STRUT ADDITION | NTS |
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3.0 PARTS LIST

| QTY -011 | PART NUMBER | DESCRIPTION |
|-------------|---------------|----------------|
| X | DSI 9740-011 | STRUT KIT |
| 1 | D5393-041 | STRUT ASSEMBLY |
| 1 | D5394-041 | BRACKET |
| 1 | D5395-1 | BRACKET |
| 1 | AN3-11A | BOLT |
| 1 | AN4-6A | BOLT |
| 1 | MS21042L3 | NUT |
| 1 | MS21042L4 | NUT |
| 2 | NAS1149F0363P | WASHER |
| 2 | NAS1149F0463 | WASHER |

4.0 WEIGHT AND BALANCE


| INSTALLATION | WEIGHT | LATERAL | | LONGITUDINAL | |
|---------------------------------------|--------------------|-----------------------|-----------------------------|-------------------|-------------------------|
| | | Arm | Moment | Arm | Moment |
| DSI 9740-011 <i>Strut Kit (LH)</i> | 0.90 lb 0.41 kg | - 37.6 in - 0.96 m | - 33.8 in-lb - 0.39 m-kg | 110.6 in 2.8 m | 99.5 in-lb 1.15 m-kg |
| DSI 9740-011 <i>Strut Kit (RH)</i> | 0.90 lb 0.41 kg | 37.6 in 0.96 m | 33.8 in-lb 0.39 m-kg | 110.6 in 2.8 m | 99.5 in-lb 1.15 m-kg |

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| MFG. APPR. | N/A | DSI 9740 | SHEET 2 OF 4 |
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ENLARGE HOLE TO $\varnothing 0.257"$
 INSTALL D5395-1 BRACKET USING:
 1X AN4-6A BOLT
 2X NAS1149F0463P WASHER
 1X MS21042L4 NUT

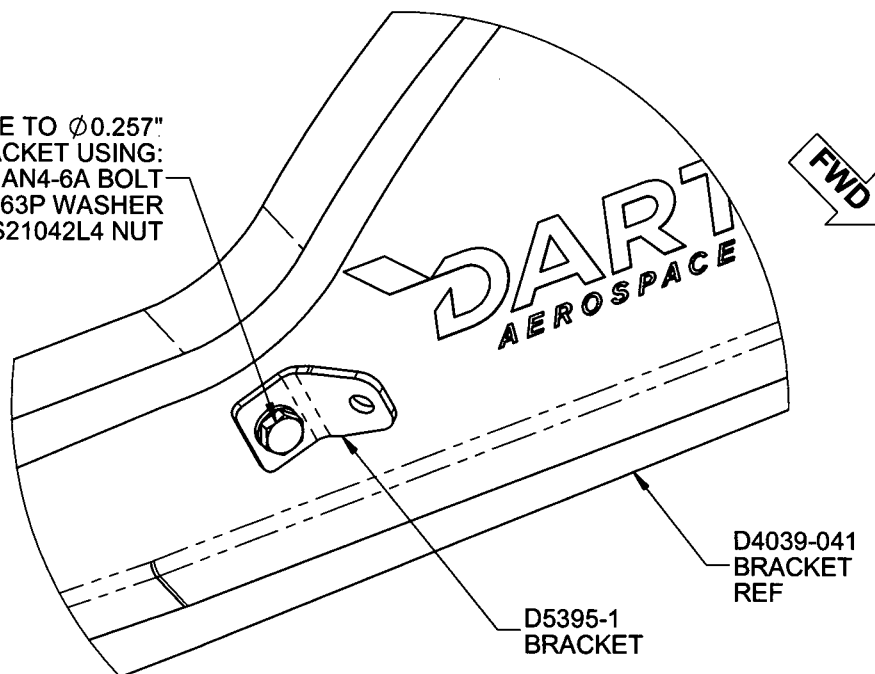
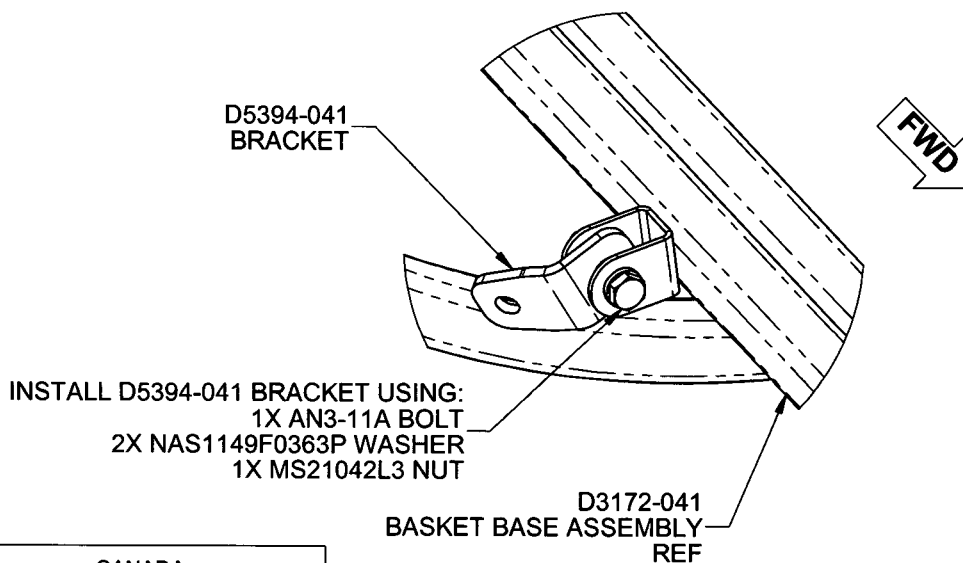


FIGURE 1: D5395-1 BRACKET INSTALLATION
 (LH INSTALL SHOWN, RH OPPOSITE)



INSTALL D5394-041 BRACKET USING:
 1X AN3-11A BOLT
 2X NAS1149F0363P WASHER
 1X MS21042L3 NUT

D3172-041
 BASKET BASE ASSEMBLY
 REF

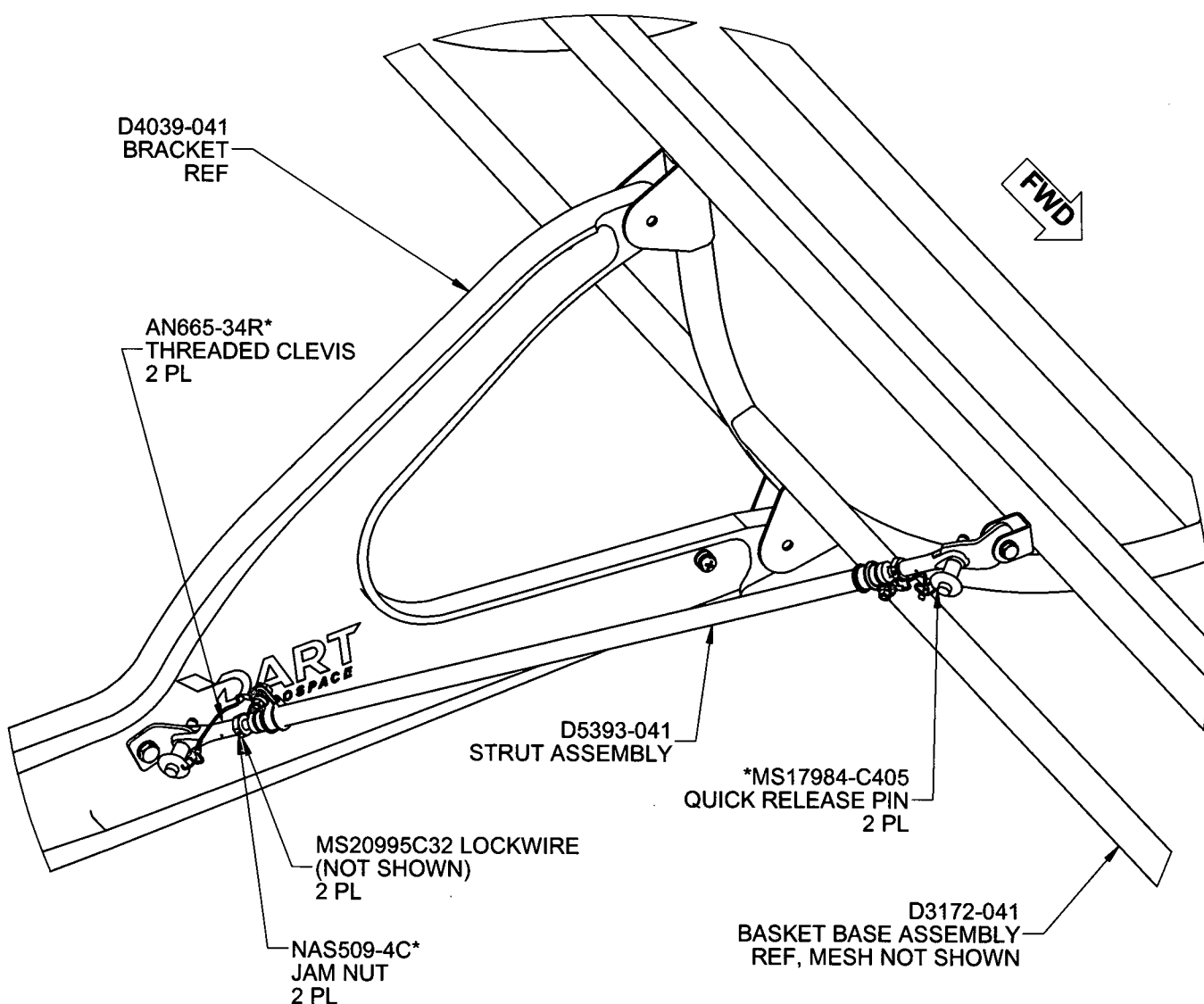
FIGURE 2: D5394-041 BRACKET INSTALLATION
 (LH INSTALL SHOWN, RH OPPOSITE)

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*PART OF D5393-041 STRUT ASSEMBLY


FIGURE 2: D5393-041 STRUT INSTALLATION
(LH INSTALL SHOWN, RH OPPOSITE)

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